

CLAIMS

Claim 1. (Cancelled).

Claim 2. (Currently amended).

An electrochemical device as defined in claim ~~1~~ 22, in which said electrodes are an anode and a cathode.

Claim 3. (Cancelled).

Claim 4. (Currently amended).

An electrochemical device as defined in claim ~~3~~ 22, in which said particles are alpha alumina particles.

Claim 5. (Currently amended).

An electrochemical device as defined in claim ~~5~~ 22, in which said particles are inorganic lithium fluoride particles.

Claim 6. (Currently amended).

An electrochemical device as defined in claim ~~6~~ 22, in which said particles are inorganic fluoride particles.

Claim 7. (Currently amended).

An electrochemical device as defined in claim ~~7~~ 22, in which said particles are a mixture of inorganic fluoride and alumina particles.

Claim 8. (Currently amended).

An electrochemical device as defined in claim ~~8~~ 22, in which said adhesive is PVDF/HFP copolymer based and contains at least one aprotic liquid and at least one salt.

Claim 9. (Currently amended).

An electrochemical device as defined in claim ~~1~~ 22, in which said adhesive is PVDF homopolymer based and contains at least one aprotic liquid and at least one salt.

Claim 10. (Currently amended).

An electrochemical device as defined in claim ~~1~~ 22, in which said electrolyte ~~is~~ has a high boiling temperature and is essentially non-flammable.

Claim 11. (Cancelled).

Claim 12. (Currently amended).

An electrochemical device as defined in claim ~~3 and 11~~ 22, in which said separator binder is of a different polymer than said ~~electrodes'~~ electrode binders, and uses a different solvent.

Claim 13. (Currently amended).

An electrochemical device as defined in claim ~~1~~ 22, in which said device is a bi-cell.

Claim 14 (Currently amended).

An electrochemical device as defined in claim ~~1~~ 22, in which said device is a capacitor.

Claim 15. (Currently amended).

An electrochemical device as defined in claim ~~1~~ 22, in which said device is a supercapacitor.

Claim 16. (Currently amended).

An electrochemical device as defined in claim ~~1~~ 22, in which said device is a double layer capacitor.

Claim 17. (Currently amended).

An electrochemical device as defined in claim ~~1~~ 22, in which said at least one ~~electrode~~ of said electrodes is smaller than said separator.

Claim 18. (Cancelled)

Claim 19. (Cancelled).

Claim 20. (Currently amended).

An electrochemical device as defined in claim ~~1~~ 22, in which said separator is coated with an adhesive which is a mixture of dimethoxyethane in the range of 40% to 95% by percentage weight, polyvinylidene fluoride/hexafluoropropylene in the range of 5% to 20% by percentage weight, and a lithium based electrolyte in the range of 10% to 45% by percentage weight.

Claim 21. (Currently amended).

An electrochemical device as defined in claim ~~1~~ 22, in which said separator is coated with an adhesive which is a mixture of polyvinylidene fluoride in the range of 5% to 50% by percentage weight, and/or a lithium based electrolyte in the range of 50% to 95% by percentage weight.